

## WPANT30088-S1A

### ISM Dual-band Body-mount Antenna



### Description / Application

This is a 870 / 915 / 2450 MHz dual-band ISM, miniaturized body-mount antenna. Small size and ease of integration make this an ideal choice for applications where space is a constraint. Standard cable is 1.32mm Micro Co-ax and connector is IPX / Hirose equivalent.

We can assist your engineers to optimize mounting positions for these antennas in your specific application. Please contact [sales@worldproducts.com](mailto:sales@worldproducts.com) with your specific application requirements.

### Electrical Properties

|  |                       |                       |
|--|-----------------------|-----------------------|
| <b>Operating Frequency</b>                                 | 860 – 960 MHz         | 2400 – 2500 MHz       |
| <b>Approximate Antenna Impedance [<math>\Omega</math>]</b> | 50 $\Omega$           | 50 $\Omega$           |
| <b>VSWR – Typical</b>                                      | < 2:1                 | < 2.5:1               |
| <b>Peak Gain [dBi] (Typical)</b>                           | 2.5 dBi               | 4.5 dBi               |
| <b>Efficiency [%] (Typical)</b>                            | 60%                   | 65%                   |
| <b>Polarization</b>  | Linear                | Linear                |
| <b>Pattern</b>   | Near Omni Directional | Near Omni Directional |

### Mechanical / Environmental Properties

|  |   |
|--|---|
| <b>Antenna Dimensions**</b>            | 2" X 1.1" X 0.8" (50mm X 27mm X 20mm)   |
| <b>Antenna Color</b>                   | Black   |
| <b>Cable</b>                           | 8.1" long 1.32mm OD Micro Co-ax   |
| <b>Connector</b>                       | IPX / Hirose equivalent   |
| <b>Tape</b>                            | Standard 3M 4920 double stick   |
| <b>External Bottom Gasket Material</b> | Standard 3M 6208 foam   |
| <b>Nut</b>                             | Nylon M12 with a slit for the cable   |
| <b>Antenna Plastic Radome</b>          | ABS + Polycarbonate   |
| <b>Operating / Storage Temperature</b> | -40°C to +90°C  |
| <b>Environmental</b>                   | Salt Spray Resistant, Water Ingress Resistant, UV Resistant, Ageing Resistant, Meets standards for UL 94V-0 |
| <b>Hazardous Materials</b>             | RoHS Compliant  |

\*\*Height includes the 3M tape & foam gasket thickness.

## Pictures of the Antenna



Note: The screw mount has two flat edges on opposite sides.

**Antenna Total Radiation Efficiency in % (including VSWR losses)**

